Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this Application:

Listing of Claims:

1. (Canceled).

2. (Canceled).

3. (Canceled).

4. (Canceled).

5. (Canceled).

6. (Canceled).

7. (Currently amended) A process for lowering the Martensitic Transformation Temperature(As) of shape memory alloy having a low martensitic transformation temperature, said alloy comprising Copper and Zinc in the range of 62-86% of Copper and 10-28% of Zinc along with 6% to 10% of Aluminum, by a re-betatising treatment of previously high temperature betatised material, said process comprising the following steps of:

(i) selecting an alloy composition comprising Copper and Zinc in the range of 62-86% of Copper and 10-28% of Zinc along with 6% of Aluminum;

(ii) melting the alloy composition in an induction furnace operating in air under charcoal cover followed by casting into desired shapes to form a shaped material;

(iii) homogenizing the ~~above composition~~ shaped material at 800° C for a period of about two hours followed by cooling;

(iv) surface machining the shaped material for removing oxide scale formation;

~~(v)analyzing the alloy composition~~

~~(vi)~~(v) re-heating the shaped material at about 575° C for about three minutes~~;~~

~~(vii)~~(vi) quenching said shaped material with cold water for obtaining a fully martensitic structure;

~~(viii)obtaining a fully martensitic structure;~~

~~(ix)identifying the soft shape memory material with martensitic structure;~~ and

~~(x)~~(vii) recording the temperature and structure of the material.~~;~~

8. (Canceled).

9. (Canceled).

10. (Canceled).

11. (Canceled).

12. (Currently amended) A process as claimed in claim 7, wherein the two-step betatising and resultant lowering of transformation temperature is valid for ~~higher~~ an Aluminum content of ~~6-10 %~~ 6% shape memory alloys.